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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
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PATENTS AND DESIGNS

Calcutta, the 17th January 1987

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APPLICATION FOR PATENTS FILED AT THE  
HEAD OFFICE214, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-700 017.

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 11th December 1986

903/Cal/86 Plamac (India) Pvt., Ltd. A machine for continuous movement of materials.

904/Cal/86 Roy L. Dudman. High bending strength ratio drill string components.

The 12th December 1986

905/Cal/86 IEL Limited. Improved emulsion explosive compositions and their manufacture.

906/Cal/86 Kraftwerk Union Aktiengesellschaft. Method for partial discharge detection and breaking spark measurement in dynamo-electric high-voltage machines, and an apparatus for performing the method.

907/Cal/86 ICI Americas INC. Synthesis of 2-halo-5-methyl pyridines. [Divisional dated 29th September, 1983].

908/Cal/86 Macneill & Magor Limited. An improved tilting fork carriage for fork lift trucks.

909/Cal/86 William Ling. Recording and reproduction of images. (24th December, 1985 & 27th May, 1986) U. K.

The 15th December 1986

910/Cal/86 Siemens Aktiengesellschaft. An electrical switch-gear cubicle.

911/Cal/86 Kasei Optonix, Ltd. Luminescent phosphor composition, process for its preparation and fluorescent lamp employing it.

912/Cal/86 Tyree Electrical Company PTY. Limited. Current transformers. (20th December, 1985) Australia.

The 16th December 1986

913/Cal/86 Projects and Development India Limited. A process for the manufacture of a balanced grade chlorine free N-P-K fertilizer.

914/Cal/86 Biogram AB. A stabilized hydrogen peroxide composition.

915/Cal/86 Siemens Aktiengesellschaft. Hydraulic drive device for an electric gas blast switch.

916/Cal/86 KRKA, Tovarna Zdravil, n.s.o.o. Process for preparing an improved composition of the zinc salt of bacitracin for veterinary use as growth promoter.

The 17th December 1986

917/Cal/86 IEL Limited. Improved water-in-oil emulsion explosive compositions and a process for the preparation thereof.

918/Cal/86 (1) Mr. Henrik Giflo, (2) Mr. Henrik Giflo. Activator mixture for increasing the strength of iron alloys.

919/Cal/86 Nippon Kayaku Kabushiki Kaisha. A method of preparing synergistic insecticidal composition.

920/Cal/86 E. I. Du Pont De Nemours and Company. Polyester fibres containing the composition that is useful as an antistatic agent. [Divisional dated 22nd July, 1983].

APPLICATION FOR PATENTS FILED AT THE PATENT  
OFFICE BRANCH, MUNICIPAL MARKET BUILDING,  
THIRD FLOOR, KAROL BAGH, NEW DELHI-5.

The 17th November 1986

999/Del/86 Dharam Paul Jindal And Manga Ram Yadav. "Process for the preparation of 17 $\alpha$ -methyl-4-androsteno (3, 2-c) Isoxazol-4, 17-diol.

1000/Del/86 Piaggio & C.S.p.A.. "Two-stroke internal combustion engine, with fuel injection and controlled ignition".

1001/Del/86 Simon-Macawber Limited, "Material conveying apparatus. (Convention date 20th November, 1985) (U.K.)"

1002/Del/86 Loc-Tax International Pty. Limited., "Light duty metal structural frames".

The 18th November 1986

1003/Del/86 Dresser Industries, Inc., "Oil based drilling fluids and additives therefor".

1004/Del/86 Ra Nova Inc., "Relaying railway switches".

1005/Del/86 Warner-Lambert Company, "Improved process for preparing 5-(2, 5-dimethylphenoxy)-2, 2-dimethylpentenoic acid."

The 19th November 1986

1006/Del/86 Advanced Separation Technologies Incorporated, "Process for production of dialkali metal phosphates by ion exchange."

1007/Del/86 The Standard Oil Company, "Fluorinated epoxy fluorocarbon coating compositions and the process to make the same".

1008/Del/86 UOP Inc., "Continuous process for mercaptan extraction from a highly olefinic feed stream".

1009/Del/86 Yen Wei Hsiung, "Packaging of electrical components". (Convention date 28th November, 1985) (U. K.)

The 20th November 1986

1010/Del/86 Sri Chunnilal Lakhaji Mistry & Others, "Folding Cradle".

1011/Del/86 Dornier GMBH, "Helicopter rotor blade control".

1012/Del/86 Colgate-Palmolive Company, "Detergent composition of improved oily soil removing capability".

1013/Del/86 Stockholm Trade Company Aktiebolag, "Composition for coating, sealing and protecting purposes".

1014/Del/86 Union Rheinische Braunkohlen Kraftstoff AG., "Process for the purification of dimethylether".

1015/Del/86 Dornier GMBH, "Helicopter with high forward speed".

1016/Del/86 Ben. L. Seegmiller, "Truss systems and components thereof".

The 21st November 1986

1017/Del/86 Council of Scientific And Industrial Research, "Improvements in or relating to black chromium plating bath useful for solar selective coatings".

1018/Del/86 Council of Scientific And Industrial Research, "Improvements in or relating to the process of coating cutting tools for increasing their life".

1019/Del/86 Cosmo Films Limited, "Process for the preparation of improved Polypropylene film, pre-

paration of improved Polypropylene laminate therefrom and Polypropylene film and Polypropylene laminate so prepared."

The 24th November 1986

- 1020/Del/86 Sab Nife AB, "A spring brake actuator for a rail vehicle brake unit".
- 1021/Del/86 F.I.C.I. Finanziaria Industriale Commerciale Immobiliare S.p.A., "Machine for slitting continuous tapes into stripes, in particular with cutting cylinders having variable size".
- 1022/Del/86 Council of Scientific and Industrial Research, "A process for the preparation of soft Acrylic Emulsion for use as Binder for Leather Finishes".
- 1023/Del/86 Council of Scientific and Industrial Research, "An improved slurry electrolytic process for the production of high purity Iron powder from sponge iron fines".

The 25th November 1986

- 1024/Del/86 Unicorn Industries Public Limited Company, "Apparatus for abrading small objects". (Convention date 30th November, 1985) (U.K.)
- 1025/Del/86 Deltaqua, "filtration apparatus for liquid".
- 1026/Del/86 The Lubrizol Corporation, "Graft copolymers prepared from solvent-free Reaction and Dispersant derivatives thereof".
- 1027/Del/86 The Standard Oil Company, "Microcrystalline alloys prepared from solid state reaction amorphous or disordered metal alloy powders".
- 1028/Del/86 The Lubrizol Corporation, "Oil soluble reaction products of an acylated reaction product, a polyamine, and a mono-functional Acid".

The 26th November 1986

- 1029/Del/86 Council of Scientific and Industrial Research, "A process for the preparation of ceramic membrane for water filtration".
- 1030/Del/86 Lucas Industries Public Limited Company, "Improvements Relating to brake adjusters". (Convention date 3rd December, 1985) (U.K.)
- 1031/Del/86 Lebever Co., "Circular saw blade assembly".
- 1032/Del/86 The B. F. Goodrich Company, "Polycycloolefins as coatings, films and sheets".
- 1033/Del/86 Vapocure Technologies Limited, "An Improved product and related process". (Convention date 3rd December, 1985) (Australia).
- 1034/Del/86 UOP Inc., "Catalyst system for the production of Aromatics from Aliphatic Hydrocarbons".
- 1035/Del/86 Shell Internationale Research Maatschappij B.V., "Process for the working-up of ethylene/carbon monoxide copolymers".

The 27th November 1986

- 1036/Del/86 The Malaysian Rubber Producers' Research Association, "Method for reducing the molecular weight of rubber latex" (Convention date 2nd December, 1985) (U.K.)
- 1037/Del/86 Ward Blenkinsop & Company Limited, "Thioxanthone Derivatives". (Convention dated 29th November, 1985) (U.K.)

The 28th November 1986

- 1038/Del/86 The Governor and Company of the Bank of England, "Printing Machines, Especially number-

ing Machines". (Convention date 2nd December, 1985) (U.K.)

- 1039/Del/86 The B. F. Goodrich Company, "Polymerization of cycloolefins with Halogen-free cocatalysts".
- 1040/Del/86 Nodest Vei A/S, "Method and an apparatus for mixing gravel and bitumen".
- 1041/Del/86 Tsudakoma Kogyo Kabushiki Kaisha, "Method for Removing wefts on a jet loom for alternate weaving with different wefts".
- 1042/Del/86 Tsudakoma Kogyo Kabushiki Kaisha, "Method for starting a jet loom".
- 1043/Del/86 Manuel Lahuerta Romeo, "A multistage pump-and-engine set for the pumping of deep wells with flooded engine".
- 1044/Del/86 Tsudakoma Kogyo Kabushiki Kaisha, "An apparatus for removing a faulty weft on a jet loom".

APPLICATION FOR PATENTS FILING AT THE  
PATENT OFFICE BRANCH, MADRAS, 61,  
WALLAJAH ROAD, MADRAS-600 002

The 1st December 1986

- 923/Mas/86 T. MUTHU, Multi Circle Interactor.
- 924/Mas/86 BASF LACKE + FARBEN AG, Binder which is Rendered Water-Dilutable by Protonation with an Acid, and ITS Preparation.
- 925/Mas/86 SNAMPROGETTI S.p.A., "Process for the launching from the mainland of large-size submarine pipelines, in particular for intake installations".
- 926/Mas/86 CATERPILLAR INC., Payload Monitor. (June 25th, 1986, CANADA).
- 927/Mas/86 INLAND STEEL COMPANY, "Method for Adding Bismuth to Steel in a Ladle".
- 928/Mas/86 INLAND STEEL COMPANY, Method for suppressing Fuming in Molten Steel.

The 2nd December 1986

- 929/Mas/86 A. K. KURIAN, Treatomat.
- 930/Mas/86 PRATHIVATHI B. D., Internal Combustion Engine.
- 931/Mas/86 PREFORMED LINE PRODUCTS COMPANY, Cable Vibration Damper and Method of Installing.
- 932/Mas/86 JACOBS SUCHARD GMBH., Process and Apparatus for Improving Roast Coffee.
- 933/Mas/86 INLAND STEEL COMPANY, "Method for Controlling Uniformity of Alloy Content in Continuously Cast Steel".
- 934/Mas/86 TAKESHI HOYE, Pressure-Feeding Apparatus.
- 935/Mas/86 INLAND STEEL COMPANY, "Preventing undissolved allowing Ingredient From Entering Continuous Casting Mold".

The 3rd December 1986

- 936/Mas/86 OWENS-ILLINOIS, INC., Tamper Indicating Package.
- 937/Mas/86 INTERNATIONAL BUSINESS MACHINES CORPORATION, Method of Making an Opening in a Semiconductor Substrate.
- 938/Mas/86 INTERNATIONAL BUSINESS MACHINES CORPORATION, Communication Channel for Multiprocessing Data Processing System.

939/Mas/86 STAMICARBON B.V., Process and Device for Distributing a Liquid in a Gaseous or Vaporous Medium.

940/Mas/86 AIRSENSORS, INC., "Throttle Body With Internally Mounted Anemometer."

The 3rd December 1986

941/Mas/86 F. L. SMIDTH AND CO., Rotatable Drum Assembly (27th January, 1986, Great Britain).

The 4th December 1986

942/Mas/86 C. K. GEORGE, Using Micro Waves for Heating in the process of Retreading Automobile Tyres with Pre-cured Rubber Treads.

943/Mas/86 CUMMINS ENGINE COMPANY, INC., Thermal Fatigue Resistant Cylinder Head.

944/Mas/86 STAUFFER CHEMICAL COMPANY, Process for the Production of Arylsulfonyl Halides.

945/Mas/86 CATERPILLAR INC., United States of America, "Mounting Frame for Linear Impact Ripper Assembly". (18th July, 1986, Australia).

946/Mas/86 Dr. ING. H.C.F. PORSCHE AKTIENGESELLSCHAFT, "An All-Wheel Limited Slip Differential System in the Power Train of a Motor Vehicle".

947/Mas/86 Dr. ING. H.C.F. PORSCHE AKTIENGESELLSCHAFT, "An All-Wheel Drive for a Motor Vehicle".

948/Mas/86 Dr. ING. H.C.F. PORSCHE AKTIENGESELLSCHAFT, "An All-Wheel Limited Slip Differential System in the Power Train of a Motor Vehicle".

#### COMPLETE SPECIFICATION ACCEPTED

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CLASS : 129-G, H, M.

158739

Int. Cl. B 23 d 57/02.

#### CUTTING LINK FOR A CHAIN CUTTER.

Applicant : HEW & MILAN DEVELOPMENT SA, 55, BOULEVARD DE PEROLLES, 1700 FRIBOURG (SWITZERLAND).

Inventors : 1. HENRI WEIGEL.

Application No. 361/Cal/83 filed March 25, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 claims

A cutting link for a chain cutter comprising a support member adapted to slide on a guide, and a cutting element solidly connected to the support member, which cutting link is characterised in that the support member comprises two parallel flanks interconnected by a cross-piece, the cutting element taking the form of a small plate of hard metal and being disposed transversely with respect to the two flanks of the support member in an opening in said flanks in such a manner that the cutting edges thereof project beyond the cross-piece, and the rear surface of the cutting element relative to the direction of cutting movement, a central stud which is enclosed by the two flanks and the connecting cross-piece.

Compl. Specn. 13 pages. Drgs. 3 sheets.

CLASS : 136-E.

158740

Int. Cl. C 08 j 1/36 B 32 b 31/00.

#### METHOD AND APPARATUS FOR PREPARING A HIGH STRENGTH SHEET MATERIAL.

Applicant & Inventor : OLE-BENDT RASMUSSEN OF FORCHWALDSTRASSE 23, CH 6318 WALCHWIL/ZUG, SWITZERLAND.

Application No. 366/Cal/83 filed March 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

24 claims

A method for preparing a high strength sheet material comprising forming a laminate comprising at least two layers of a thermoplastic polymer material, each layer having a fibrillar grain structure providing a predominant direction of splittability in each said layer, the layers being bonded to one another with said predominant directions of splittability transverse to each other, and biaxially orienting the molecules of said layers by stretching the layers in substantially uniaxial steps, the transverse stretching being effected by applying pressure to the surface of the laminate along lines extending substantially in the longitudinal direction of the laminate to impart thereto a waved configuration, characterized in subjecting the biaxially oriented laminate to a heat treatment while allowing at least 7% shrinkage of the laminate to take place in at least its transverse direction, and in effecting the heat treatment by contacting a longitudinally pleated laminate with the surface of a hot body, whereby the laminate is fed onto the said surface in longitudinally pleated state, the pleating being limited to such extent that it becomes eliminated by the said shrinkage in the transverse direction.

Compl. Specn. 32 pages. Drgs. 2 sheets.

CLASS : 126-D.

158741

Int. Cl. G 01 t 31/00.

#### A SYSTEM FOR ANALYZING THE SECONDARY CURRENT IN A CURRENT TRANSFORMER.

Applicant : BBC BROWN BOVERI & COMPANY, LTD., OF BADEN, SWITZERLAND.

Inventors : 1. PAUL BULATY, 2. IVAN DE MESMAKER, 3. ZDENEK FRANC, 4. GIUSEPPE SALERNO.

Application No. 336/Cal/83 filed March 19, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 claims

A system for analyzing the secondary current ( $I_s$ ) in a current transformer (20), the primary side of which is connected into a line (10) of an electric energy supply network, when the current transformer (20) is saturated, having a zero-transition detector (50), wherein a saturation detector (30), a polarity detector (40) and a first input (51, 61, 71) of, respectively, the zero-transition detector (50), an extrapolation circuit (60) and a first switch (70) are connected to the secondary side of the current transformer (20), an output (32) of the saturation detector (30) is connected to a second input (53) of the zero-transition detector (50), an output (42) of the polarity detector (40) is connected to a third input (53) of the zero-transition detector (50), an output (54) of the zero transition detector (50) is connected to a second input (62) of the extrapolation circuit (60) and an output (63) of the extrapolation circuit (60) is connected to a second input (72) of the first switch (70), the switching input (73) of which is connected to the output (32) of the saturation detector (20).

Compl. Specn. 14 pages. Drgs. 3 sheets.

CLASS : 191

158742

Int. Cl. B 41 j 1/00.

#### MULTI-LINGUAL TYPEWRITER.

Applicant & Inventors : 1. SHANKER PRASAD MISHRA, 11-G, ANAND APARTMENTS 116, SOUTHERN AVENUE, CALCUTTA-700 029.

2. (SM.) NAYANTARA PATHAK, 1-32/1-A, SNEHA-PURI NACHARAM PANCHAYAT, RANGA REDDY DISTRICT HYDERABAD 501 507.

3. (SM.) CHITRA MISHRA, 11-G, ANAND APARTMENTS 116, SOUTHERN AVENUE, CALCUTTA-700 029.

4. (SM.) ABHA MISHRA 337, JODHPUR PARK, CALCUTTA 700 068.

Application No. 352/Cal/83 filed March 24, 1983.

Complete Specification left on 26th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 claims

A multilingual typewriter comprising typefaces of letters of different languages, including signs, symbols and marks and capital letters, if any; composite keys comprising detachable and interchangeable letter face plates in a holder permanently affixed to the respective ends of levers corresponding to the typefaces; a cylinder, in its carriage, affixed to tops of the shift levers' ends, movable up and back down to the basic position, relative to the typefaces, exclusive of and in addition to movement thereof by means of the shift which is allowed unimpeded; typefaces movable en bloc up and back down to the basic position, relative to the cylinder in its carriage, allowing unimpeded movement thereof by the shift which is exclusive and additional; means for so moving the cylinder in its carriage; means for so moving the typefaces en bloc; means for holding in place parts of a composite key.

Provisional Specn. 3 pages. Drg. nil.

Compl. Specn. 11 pages. Drgs. 2 sheets.

CLASS : 191.

158743

Int. Cl. B 41 j 1/00.

#### ADJUSTABLE TYPEWRITER CARRIAGE.

Applicants & Inventors : 1. SHANKER PRASAD MISHRA, 11-G, ANAND APARTMENTS 116, SOUTHERN AVENUE, CALCUTTA 700 029.

2. (SM.) NAYANTARA PATHAK, 1-32/1, SNEHA-PURI NACHARAM PANCHAYAT, RANGA REDDY DISTRICT, HYDERABAD 501 507.

3. (SM.) CHITRA MISHRA, 11-G, ANAND APARTMENTS 116, SOUTHERN AVENUE, CALCUTTA 700 029.

4. (SM.) ABHA MISHRA 337, JODHPUR PARK, CALCUTTA 700 068.

Application No. 353/Cal/83 filed March 24, 1983.

Complete Specification left on 26th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 claims

An adjustable typewriter carriage comprising a cylinder of the desired length, movable along its axis, containing two identical sets of telescopic tubes, each telescopic tubes about half the length of the said cylinder, all rotatable on their common axis; and also preferably, a second, short, outermost, cylinder, in the middle of the carriage, immobile along its axis, with means to keep it in position, within which is the first cylinder sliding inside the second cylinder along the whole length of the first, all rotatable on their common axis; both sets of telescopic tubes being pulled apart by knobs at outer ends of the inner-most telescopic tubes, to lengthen the carriage, and by pushing in the same, to shorten the carriage, in adjustment to the width of the paper or as desired, but not shorter than the length of the first cylinder; so the carriage releasable holds paper for typing; a pair of parallel guide rails, along and under the carriage, collapsible and extensible with the carriage and its said parts; a rack or ratchet bar in detachable mesh with the escapement ratchet wheel, under the carriage, for moving the carriage left one space at a time, which also automatically adjusts to the same extent simultaneously with the varying length of the carriage and its aforesaid parts; a tabulator of two bars sliding along the length of each other, lengthening and shortening simultaneously with the carriage and its said parts, with movable spring clips for tabulation.

Provisional Specn. 6 pages. Drg. nil.

Compl. Specn. 19 pages. Drgs. 2 sheets.

CLASS : 131-A<sub>2</sub>; B<sub>5</sub>.

158744

Int. Cl. E 21 b 41/00.

#### AN APPARATUS FOR INVESTIGATING AN EARTH FORMATION PENETRATED BY A BOREHOLE.

Applicants : SCHLUMBERGER LIMITED, AT 277 PARK AVENUE, NEW YORK, NEW YORK 10017, U.S.A.

Inventors : 1. MICHAEL P. EKSTROM, 2. MARK HAVIRA.

Application No. 357/Cal/83 filed March 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 claims

An apparatus for investigating an earth formation penetrated by a borehole with a tool employing on a segment thereof means for measuring a parameter that is sensitive to the occur-

rence of a stand-off condition of said segment from the borehole wall characterized by :

means for directing pulses of acoustic energy toward the wall of the borehole from a tool location which has a known position with respect to the location of the measuring means and generating reflection signals representative of detected acoustic reflections caused by said pulses; and

means for generating from said reflection signals stand-off signals indicative of the magnitude of the stand-off of said measuring means from the wall of the borehole.

Compl. Specn. 32 pages. Drgs. 5 sheets.

CLASS : 107-F.

158745

Int. Cl. H 01 t 13/00.

IMPROVEMENTS IN OR RELATING TO HIGH-VOLTAGE SPARK PLUGS.

Applicant : ROBERT BOSCH GmbH, 7000 STUTTGART 1, POSTFACH 50, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. WALTER BENEDIKT, 2. DR. KLAUS-DIETER POHL, 3. RUDOLF POLLNER, 4. DR. CHRISTIAN SCHAFFRIN, 5. LEO STEINKE.

Application No. 362/Cal/83 filed March 25, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 claims

A high-voltage spark plug having a metal, substantially tubular housing the exterior of which housing incorporates means for fitting the spark plug into an internal combustion engine and the through bore sealing of which housing surrounds a substantially circularly symmetrical, preferably sintered, electrically insulating element, and the said housing's end portion, which faces a combustion chamber when the plug is fitted to an internal combustion engine, has an earth electrode which is located at a distance (spark gap) from a relatively short central electrode, which central electrode is made from a noble metal, such as platinum, silver or gold, or contains a noble metal and which central electrode is fixed in a gap-free and sealed manner in the bottom, facing the combustion chamber, of a stepped longitudinal bore in the electrically insulating element and the longitudinal bore in said insulating element has a smaller diameter than the other parts of the longitudinal bore extending at the connection end of said insulating element, and said central electrode is in direct contact with one end portion of a metal element within the longitudinal bore, the other end portion at the connection end of the said metal element being sealingly contacted with an electrically conductive sealing compound in the longitudinal bore, and an end portion of an electrically conductive terminal pin being anchored in the said sealing compound, and the other end portion of the terminal pin extending out of the electrically insulating element at the connection end thereof, in which the metal element is of pin-like construction and is made from a relatively inexpensive material is guided accurately and laterally in the longitudinal bore in the electrically insulating element and has at its combustion chamber end a tip by which the metal element is in intimate contact with the central electrode at the connection end of the central electrode, which is facing the electrical connection side of the spark plug, and the portion of the metal element at said connection end extends into that region of the longitudinal bore in the electrically insulating element, which always remains reliably below the transformation range of the electrically conductive sealing compound at all the operating temperatures which occur in this region when the spark plug is in use.

Compl. Specn. 15 pages. Drgs. 2 sheets.

CLASS : 51-D.

158746

Int. Cl. B 26 b 21/40.

A RAZOR BLADE ASSEMBLY.

Applicant : WILKINSON SWORD LIMITED, OF SWORD HOUSE, TOTTERIDGE ROAD, HIGH WYCOMBE, BUCKINGHAMSHIRE HP13 6ET, ENGLAND.

Inventor : 1. DAVID STEPHEN DUNCAN.

Application No. 391/Cal/83 filed April 2, 1983.

Convention dated 3rd April, 1982 (82 09979) United Kingdom. 6th December 1982 (82 34699) United Kingdom.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 claims

A razor blade assembly comprising first and second blades each having a cutting edge, a guardbar rigidly secured to the first blade and a top cap rigidly secured to the second blade, the cutting edge of the blades being parallel to and staggered with reference to each other in the shaving position of the blades, and means mounting the guardbar for movement relative to the top cap from the shaving position in which each blade edge is correctly exposed between the guardbar and top cap for shaving, to a nonshaving position in which the blades are screened from contact with a person handling the blade assembly.

Compl. Specn. 7 pages. Drgs. 2 sheets.

CLASS : 116-C.

158747

Int. Cl. B 65 b 35/50.

DEVICE FOR ARRANGING ON AN AUXILIARY TRANSPORT BELT OF PACKAGES WOUND ON AN OPEN END SPINNING MACHINE.

Applicant : MASCHINENFABRIK RIETER AG, OF WINTERTHUR, SWITZERLAND.

Inventor : 1. ANDRE LATTION.

Application No. 406/Cal/83 filed April 7, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 claims

Device for arranging on an auxiliary transport belt of packages wound on an open end spinning machine, the auxiliary belt being aligned with a main transport belt extending longitudinally of the spinning machine and serving to carry away the packages, and the start of the transport path formed by the auxiliary transport belt adjoining the end of the transport path formed by the main transport belt, the axes of the packages lying parallel to their direction of movement during transport of the packages on the transport belts, characterized in that for control of the movements of the auxiliary transport belt (16) a detector (23, 35) is provided which is operable by the packages (14) moved by the transport belts (13, 16), which is located in the region in which the two transport paths adjoin one another and which causes starting of the auxiliary transport belt (16) when passed by a package (14), and in that means is provided for stopping the auxiliary transport belt (16) after movement thereof through a distance which is at least approximately equal to the hobbin length of the packages (14).

Compl. Specn. 15 pages. Drg. 2 sheets.

CLASS : 195-C.

158748

Int. Cl. F 16 k 31/00.

## ACTUATING MACHANISM.

Applicant : ROTORK CONTROLS LIMITED, OF ROTORK HOUSE, BRASSMILL LANE, BATH BAL 3JQ, ENGLAND.

Inventor : 1. PETER GEORGE SANDERS.

Application No. 407/Cal/83 filed April 7, 1983.

Convention dated 23rd April 1982 (82 11885) United Kingdom.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 claims

An actuating mechanism of the kind comprising a driving member, a driven shaft and a transmission means through which the driven shaft is driven by the driving member through a certain angle of rotation after a predetermined number of revolutions of said driving member, and actuating means carried by said driven shaft and operative at a predetermined angular position of said driven shaft, wherein an adjustment shaft is provided can be rotated to rotate the driven shaft through the transmission means, a clutch is connected between the driving member and the transmission means to permit by disengagement of the clutch the adjustment shaft to rotate the driven shaft relatively to the driving member, a radial projection, for example an arm, is provided on the driven shaft in a fixed angular relationship to the actuating means thereon, and a removable abutment stop for said radial projection is provided at a predetermined angular position with respect to the axis of the driven shaft to limit the angular displacement of said driven shaft by said adjustment shaft.

Compl. Specn. 16 pages, Drgs. 3 sheets.

Ind. Cl. : 126A.

Int. Cl. : G01R—19/00.

## Title : A DEVICE FOR SENSING DIRECT CURRENT.

Applicant & Inventor : AVINASH SHRIKRISHNA VAIDYA, INDIAN NATIONAL, RESIDENT OF 122/3 ANURAG APPARTMENTS, ERANDONA, PUNE-411 004, MAHARASHTRA, INDIA.

Application No. : 75/Bom/1983 filed on 9th March, 1983.

Complete after provisional left on 22nd May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

## 3 claims

A device for sensing direct current comprising a continuous core on which are mounted at least two driver oscillator coils and a sensor coil, the D.C. carrying conductor being made to pass directly through the core or near it, the magnetic field existing around the conductor being sensed by the sensor coil.

Prov. Specn. 3 pages. Drgs. nil.

Comp. Specn. 4 pages. Drg. 1 sheet.

Ind. Cl. : 29C

158750

Int. Cl. : H03K—23/34

## Title : A DEVICE FOR SENSING AND DIGITALISING THE VARIABLE ANGULAR AND ROTATIONAL PARAMETERS OF A ROTATING BODY.

Applicant & Inventor : PRABHAKAR GOVIND BHAT, AN INDIAN NATIONAL, OF 46/1340 ADARSH NAGAR, PRABHADEVI, BOMBAY-400 025, INDIA.

Application No. 139/BOM/1983 FILED ON APR. 23, 1983 COMP. AFTER PROV. LEFT ON JUL. 23, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972), Patent Office, Bombay Branch.

## 18 Claims

A device for sensing and digitalising the variable angular and rotational parameters of a rotating body which comprises a planar member adapted to be mounted about said body for rotation therewith, said planar member being adapted to permit and alternately block the passage through it of energy from a source of energy located on one surface of said planar member, said intermittent transmission of energy being adapted to impinge on energy-sensitive receiving means located on the opposite surface of said planar member, said intermittent transmissions of energy through said planar means constituting a series of direction dependent pulses, a pair of consecutively disposed direction sensor means provided in relation to said planar member for sensing and determining the direction of said rotating body, electronic circuit means connected to said energy-sensitive means and to said direction sensor means for the digital conversion of the pulses sensed by said pair of sensor means and display means connected to said circuit means for the display in digital form of the converted angular and rotational parameters of said rotating body.

Prov. Specn. 6 pages Drgs. Nil

Comp. Specn. 16 pages Drgs. 2 sheets.

Ind. Cl. : 196B 1

158751

Int. Cl. : F 24F 13/00

## Title : IMPROVED AIR CONDITIONER.

Applicant & Inventor : SURENDRA HIMATLAL SHAH, INDIAN NATIONAL, 15-B, THACKER INDUSTRIAL ESTATE, N. M. JOSHI MARG, BOMBAY-11.

Application No. 239/BOM/83 File on Aug. 4, 1983.

Comp. after prov. left on Nov. 2, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

## 6 Claims

An improved Air Conditioner having a condenser plenum and an evaporator plenum characterised in that it has a moisture magnet (8) mounted below a cooling coil (12) in the said evaporator plenum, inter alia comprising of a container closed on all sides except one, which is kept open to the area to be air conditioned, having a continuous tube (48) of a thermally conductive metal carrying the refrigerant, in the form of an inter connecting piping all around the said container in a serpentine fashion, a capillary tube (47) feeding the refrigerant into the said continuous tube (48), the said capillary tube (47) connecting the condenser (19) and the said moisture magnet (8) to the cooling coil (12) from which connection is being made to the suction inlet of the compressor (2), the hot gas discharge from the said compressor (2) being connected back to the said condenser, wherein the diameter of the said continuous tube (48) being larger than the diameter of the capillary tube (47) but smaller than the diameter of the pipe (49) of the cooling coil (12), thus forming a refrigerant circuit.

Prov. Specn. 5 pages. Drg. Nil

Comp. Specn. 9 pages. Drgs. 2 sheets.

Class : 61 I

158752

Int. Cl. : F 23 G—7/00

## Title : A FLUIDIZED BED BAGASSE DRYING SYSTEM.

**Applicant :** CAMUS ENGINEERS PVT. LTD., 'ZELAM' APARTMENTS, 61/B-11, NEAR INCOME TAX LANE, OFF KARVE ROAD, PUNE-411 004, MAHARASHTRA, INDIA.

**Inventor :** (1) WAMIQ ALI KHAN.

**Application No.** 271/BOM/1983 filed Sep. 6, 1983.

**Comp. after prov. left** Nov. 17, 1984.

**Appropriate office for opposition proceedings** (Rule 4, Patents Rules 1972). Patent Office, Bombay Branch.

#### 16 Claims

A fluidized bed bagasse drying system comprising a dryer having a plenum chamber, a trough securedly held to said plenum chamber, an exhaust hood enclosing said trough, said plenum chamber supported on means for imparting a vibration to said plenum chamber, a conveyor for feeding bagasse to the dryer, means for discharging dried bagasse, and a booster fan or blower with ducts extending into said plenum chamber for supply of hot gases thereto.

**Comp. Specn.** 12 pages, Drgs. 3 sheets.

**Prov. Specn.** 5 pages, Drgs. Nil.

**Ind. Class :** 157 B + F 118 A. 158753

**Int. Cl. :** B 61 j-3/06, 3/12.

**Title :** A WAGON MARSHALLING DEVICE.

**Applicant :** ELECON ENGINEERING COMPANY LIMITED, AN INDIAN COMPANY HAVING ITS OFFICE AT VALLABH VIDYANAGAR 388,120 GUJARAT INDIA.

**Inventor :** MAHENDRA CHUNILAL PATEL.

**Application No.** 290/BOM/1983 Filed on Sept., 19, 1983.

**Appropriate office for opposition proceedings** (Rule 4, Patent Rules 1972). Patent Office, Bombay Branch.

#### 19 Claims

A wagon marshalling device travelling on independent narrow gauge track which is sunk below the level of wagon rails for carrying out marshalling of wagons on main wagon rail track without use of any locomotives and deriving power through chain and/or wire rope drive and winch assembly operated by manual remote control comprises a head section, middle section and a tail section coupled together by a roller pins forming hinge pin and mounted on combination of plain skids and rail guides at head and middle section and flanged skids at tail section, means on said tail section for attaching thereto chain or wire rope for propelling the said device by means of winch operation, a narrow gauge track located in-between and below a standard gauge wagon rail track on which wagons are to be marshalled, the said head section having two pairs of left and right-hand retractable arms, each of said arms having a pair of roller assembly in spaced and symmetric relation with each other and wherein the pair of rollers on rear arms pair forming propelling rollers, and the pair of rollers on front arms pair forming restraining rollers, each of said retractable arms having independent means for actuating the opening and retracting mechanism during forward or rearward travel respectively of said W.M. device on said narrow gauge track, such that during propelling of a wagon to be marshalled on main wagon rail track, said front, pair of propelling rollers on rear arms pair make a pin point friction contact with tread of wagon wheel and the rear pair or said propelling rollers make a pin-point friction contact with the top of main wagon rail track on which wagon is being marshalled and wherein when said wagon is stationary the rear pair of restraining rollers on front arms pair make a pin point friction contact with tread of wagon wheel and the front pair of said restraining rollers make pin point friction contact with top of wagon rail track and said wagon wheel is trapped, restrained, braked and locked in fixed posi-

tion and is prevented from rolling forward/rearward on main wagon rail track beyond accurately marshalled or spotted position for said wagon.

**Compl. Specn.** 17 pages.

**Drg.** 20 sheets.

**Ind. Class :** 80 A + K.

158754

**Int. Cl. :** C02 b-1/00, B old-39/20.

**Title :** A FILTRATION APPARATUS.

**Applicant :** PRESSURE COOKERS AND APPLIANCES LIMITED, F-101, MAKER TOWERS, CUFFE PARADE, BOMBAY-400 005, MAHARASHTRA, INDIA.

**Inventors :** NARANAMMALPURAM SANKARAN SUBRAMANIAN SURENDRA NATH SHARMA.

**Application No.** 318/BOM/1983 Filed on Oct., 12, 1983.

**Complete after provisional left** on Jan., 30, 1984.

**Appropriate office for opposition proceedings** (Rule 4, Patents Rules 1972). Patent Office, Bombay Branch.

#### 7 Claims

A filtration apparatus or means comprising a vessel having a lid or cover member removably held thereto, a steam separator removably held to the side wall of said vessel, a filter media in the form of a filter pad or disc disposed within said steam separator, a riser tube in flow communication with said filter pad/disc, said riser tube terminating preferably slightly away from the inner base of the vessel, an outlet provided in flow communication with the said filter pad/disc externally of said side wall for discharge of filtered liquid contained within said vessel.

**Provisional specification** 5 pages, Drawing Nil.

**Complete specification** 9 pages, Drawing 1 sheet.

**Class :** 134 A.

158755

**Int. Cl. E** 05b-65/12, B 60 γ-25/00.

**Title :** COMBINED LOCKING DEVICES FOR STEERING AND IGNITION SYSTEMS OF MOTOR VEHICLES.

**Applicants :** BAJAJ AUTO LIMITED, AKURDI, PUNE-411 035, MAHARASHTRA, INDIA.

**Inventors :** (1) MYSORE SUBBARAU KESHAV, (2) ASHOK VISHWANATH SARWATE.

**Application No.** 341/BOM/1983, filed on 31st October 1983.

**Appropriate office for opposition proceedings** (Rule 4, Patent Rules 1972). Patent Office, Bombay Branch.

#### 6 Claims

A combined locking device for the steering system and the ignition system of a motor vehicle comprising a lock barrel fixed to tubular housing of the steering column, a lock cylinder slidable within the lock barrel as well as angularly movable relative to the lock barrel, the lock cylinder when pushed into the lock barrel entering into a slot in the steering column through a hole in the said tubular housing so as to lock the steering column, and an ignition lock part comprising an electric switch having a base member fixed to the barrel and provided with two pairs of electrical contacts connected in parallel in the primary circuit of the ignition system and two slots spaced from each other corresponding to the spacing of the said pairs of contacts and a contact plate having three lugs thereon, mounted on a second barrel mounted on and rotatable relative to the lock barrel, the second and the third lugs being spaced from each other corresponding to the spacing of the contacts of each of the said pair of contacts, the second and the third lugs engaging the first or the second pair of electrical contact when the contact plate is turned to bring the first lug opposite to the first slot or the



second slot respectively on the base member, the engagement between the electrical contacts and the second and the third lugs being broken when the contact plate is angularly moved so that the said first lug is away from the said slots, rendering the ignition system in operative.

Compl. Specn. 10 pages, Drg. 1 sheet.

158756

Ind. Cl. : 173A.

Int. Cl. : B05b—17/08.

Title : AN UNITARY NOZZLE FOR OBTAINING THREE OR MORE TIER LILY FLOWER TYPE FOUNTAIN.

Applicant : (1) SUNDEEP DULICHAND NAIK, (2) DEEPAK DULICHAND NAIK, (3) MRS. ANJANA DULICHAND NAIK AND (4) PRADEEP DULICHAND NAIK, ALL BEING INDIAN CITIZENS AND PARTNERS OF DEEP & DEEP INDUSTRIES, 1097, SHUKRAWAR PETH, PUNE-411 002, MAHARASHTRA, INDIA.

Inventor : (1) SUNDEEP DULICHAND NAIK.

Application No. : 350/BOM/1983 FILED NOV. 8, 1983  
COMP. AFTER PROV. LEFT NOV. 7, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

### 3 Claims

An unitary nozzle for obtaining three or more tier lily flower type fountain comprising :

(i) a bottom cup with socket means for attaching it to outlet of plumbing line, said cup having plurality of concentrically placed grooved passages separated from one another by means of concentrically placed walls, wherein the top end face of each of said concentric walls is at an unequal level and the base of said grooved passages is closed and the end face of said outermost concentrically placed walls is provided with tapped holes which register with corresponding counter-sunk holes formed in the bottom end face of outermost concentrically placed wall of top cup;

(ii) a perforated disc shaped gauze wire member forming a strainer cum-built-in-valve; and

(iii) a top cup or cover for said bottom cup, said top cup having a plurality of concentrically placed grooved passages corresponding with the concentrically placed passages formed in said bottom cup, and separated by plurality of concentrically placed walls matching with the corresponding concentrically placed walls on said bottom cup, and wherein the bottom end faces of each of said walls of the top cup are along one plane and the end face of the outermost wall on the said top cup has a series of counter-sunk holes matching and registering with the tapped holes on the corresponding outermost concentric wall on said bottom cup, and in that the closed curvilinear top hood of said top cup is having a series of spaced holes extending angularly into respective concentrically placed grooved passages forms a main jet having an inverted V-shaped top ending in a central passage and forming a main jet rising upto its maximum height depending upon the pressure of water passed therethrough, the arrangement being such that when said strainer disc is sandwiched between said top and bottom cup members and secured thereto by means of screws, there is formed a communicating passage between the matched end faces of said concentrically placed walls for passage of desired restricted flow of water therethrough, and when said unitary nozzle is fitted to any outlet of a plumbing line, the water rushing thereinto under pressure is diffused by said strainer disc and is primarily thrown upwardly in a central jet forming core of 3-tier fountain, and the water diffused by said strainer and flowing into other two concentrically placed passages formed in said cup shaped top and bottom members is thrown upwardly through respective angularly extending series of holes drilled at different angles formed in said top hood of said top cup to form a plurality tiered lily flower type fountain.

Comp. specn. 8 pages, Drgs. Nil.

Prov. Specn. 6 Pages. Drgs. 2 sheets.

2—417GT/86

Ind. Cl. : 173A.

Int. Cl. : B05B 17/08.

Title : AN IMPROVED UNITARY ADJUSTABLE FOUNTAIN NOZZLE.

Applicants : (1) SUNDEEP DULICHAND NAIK, (2) DEEPAK DULICHAND NAIK, (3) MRS. ANJANA DULICHAND NAIK AND (4) PRADIP DULICHAND NAIK, PARTNERS OF DEEP & DEEP INDUSTRIES, 1097 SHUKRAWAR PETH, PUNE-411 002 MAHARASHTRA, INDIA.

Inventor : (1) SUNDEEP DULICHAND NAIK.

Application No. 373/Bom/83 Filed Nov. 28, 1983.

Complete after provisional filed on November 9, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

### 7 Claims

An unitary adjustable fountain nozzle comprising a coupling with an integrally formed or pres fitted stream straightener fitted near its middle, said stream straightener comprising a central boss having a stem extending upwardly and downwardly therefrom at its center and said boss having a plurality of radially extending slots forming passages for flow of water under pressure therethrough and functioning as stream straightener for said coupling; to upper stem of said stream straightener is fitted an adjustably mounted center ball having a central stem at its bottom which is extended outwardly to form a boss having a conical wall forming an angle of 45° inclined to the horizontal line X-X coinciding with the junction of the bottom stem and the conical wall and the top end of said coupling is provided with a conical opening having a tapering wall of 30° inclined to the vertical line A-A coinciding with the top inner vertical surface of the body of the said nozzle whereby it is made possible to have an adjustable cone of water spray varying from 30° to 90° for water under pressure ejected through the passage formed therebetween, and an adjustable ring with check-nut means being threaded on to said top open end of said coupling and in that said top center ball is adjustable to increase or decrease the angle of radial passage at the outlet end thereof between said top center ball and said conical opening in said coupling varying from 30° to 90° angle to have a fountain spray varying from solid dome like spray to hollow cone water sheet and is further adjustable to form a dancing fountain by adjusting the said adjustable supplementary coupling forming locking ring on said body coupling and secured thereto by means of a lock ring substantially as illustrated in the drawings filed with the provisional specification.

Comp. Spec. 10 pages, Drgs. Nil.

Prov. Specn. 7 pages. Drgs. 2 sheets.

158758

Ind. Cl. : 179F.

Int. Cl. : B 65 d-41/00; 47/00.

Title : AN IMPROVED CLOSURE HAVING TRIPLE PILFER-RESISTANT SEALS FOR CONTAINER ORIFICE "NECK RING AND THE LIKE.

Applicants : PRECISION MOULDINGS PRIVATE LIMITED, AN INDIAN COMPANY HAVING ITS OFFICE AT : G-43, VENUS APARTMENTS, WORLI SEA FACE, BOMBAY-400 018, INDIA.

Inventor : YOGESHKUMAR SANTDAS JAYSING.

Application No. 27/BOM/1984, Filed on 28th January 1984.

Complete after provisional left on 1st December 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Bombay-13.

## 9 Claims

An improved closure having triple pilfer-resistant seals for container orifice/neck ring and the like comprises a fixed closure plug having a top flange with an integrally formed skirt and a pilfer-evident sealing band linked thereto with the help of plurality of spaced lugs forming first pilfer-resistant seal; said skirt having a grooved ring and a projecting lock ring therebelow and the inner wall adjacent to said lock ring is integral with bottom end of a collapsible/foldable spout and the upper end of said spout is closed by a shearable diaphragm forming a second pilfer resistant seal; and said spout having threaded means for fixing thereto a screw cap provided with ahingeably mounted round sealing band with shearable retaining lugs forming third pilfer resistant seal, said closure plug being fixed to an orifice/neck ring in the container top, said orifice/neck ring has an inwardly projecting beaded ring, a counter sunk flange there around and an upwardly projecting ridge having inwardly tapering wall at its inner surface and a straight edge on the outer surface, the said closure plug being securely locked with the help of said projecting lock ring in the said orifice/neck ring in said container top so as to form a leak-proof closure for said container.

Provisional Specification 7 Pages; Drawings—2 Sheets.

Complete Specification 12 Pages; Drawings—1 Sheet.

Ind. Cl. : 48C.

158759

Int. Cl. : C 04 b 43/00, 43/12.

Title : A process for the preparation of an electrical insulating material.

Applicant : ISOVOLTA Österreichische Isolierstoffwerke Aktiengesellschaft, an Austrian Company of A-2351 Wiener Neudorf, Austria.

Inventors : Mr. Goti Fried Deutschmann and Helmut Gsellmann.

Application No. 28/Bom/1984 Filed on January 30, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972) Patent Office, Bombay Branch.

## 13 Claims

A process for the preparation of an electrical insulating foil containing substantially a thin-layer of electrical grade mica powder and a hardenable synthetic resin said process comprising forming a paste of electrical grade mica as herein described and a hardenable synthetic resin as herein defined and optional fillers and/or reinforcement materials, forming strand of said paste by extrusion and subjecting the said pasty strand to a calender or ribbon press to reduce the strand thickness into a thin-layer.

Complete specification 10 pages, Drawings 1 sheet.

Ind. Cl. : 200D.

158760

Int. Cl. : F04 d-33/00, F 04 b-47/00.

Title : A STEAM OPERATED WATER LIFTING DEVICE.

Applicant & Inventor : DHOLARIA KARSAN RAMJIBHAI, AT VIA : GOMTA, POST : NAVAGAM, AT : LILAKHA, TALUKA : GONDAL, DIST. RAJKOT, STATE : GUJARAT, INDIA.

Application No. 42/Bom/1984, Filed on 17th February 1984.

Appropriate office for opposition proceeding (Rule 4, Patents Rules 1972) Patent Office Branch, Bombay.

## 9 Claims

A steam operated water lifting device comprising a boiler having upper and lower portions, serving as economiser and steam generator, fitted with a venturi at the top of the chimney of boiler and having a rotating grate at the bottom; means to rotate the said grate; a steam turbine having an air tight condenser tank with an air pocket; a pipeline having plurality of valves to lead steam generated in the boiler to the turbine; a pump coupled with said turbine and rotating inside the said condenser near its bottom; a second pipe through which water enters into the upper portion of the said boiler; a third pipe through which lower portion of the boiler is fed with water from upper portion with the help of a steam injector; a suction pipe with a foot valve connected to air pocket of said condenser, the foot valve being dipped into the water of a bore/well; a delivery pipe connected to water pump and both are fixed with said condenser, which draws water upto the ground level.

Complete specification 8 pages, Drawings 2 sheets.

Ind. Cl. : 170B.

158761

Int. Cl. : C11d-1/86, 3/04.

Title : POWDER DETERGENT COMPOSITIONS WITH MODIFIED SODIUM CHLORIDE AND THE PROCESS FOR THE MANUFACTURE OF SAME.

Applicant : HINDUSTAN LEVER LIMITED, AT HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : NIRAJ DHANSUKHLAL MISTRY VINOD KUMAR RAM NIRANJAN DHANUKA.

Application No. 64/BOM/1984 filed on 16th March 1984.

Complete after provisional left on 14th March 1984.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 4 Claims

A fabric washing detergent powder having free flowing properties in the presence of sodium chloride which comprises :

- (i) conventional detergent active component in an amount of 5 to 50% by wt. of the total powder with conventional additives such as builders, adjuncts, enzymes, bleaching agents in an amount of 0 to 70% by wt. of the total powder and;
- (ii) from 3.0% to 80% by wt. based on the weight of the detergent powder of a modified sodium chloride crystals as herein described of low bulk density in the range of 0.4g per ml to 0.8g per ml.

Prov. Specn. 4 pages, Drawing Nil.

Comp. Specn. 14 pages, Drawing Nil.

158762

Ind. Cl. : 50 B + D, 98 G.

Int. Cl. : F-28 C 3/00.

Title : AN IMPROVED PLATETYPE OIL COOLER FOR AN ENGINE OR A LIKE MACHINE.

Applicant & Inventor : PRABHUDAS JAMNADAS VORA, INDIAN NATIONAL OF SOMERSETT HOUSE, 14TH FLOOR, SHAHAKART BHANDAR LANE, OFF BHULABHAI DESAI ROAD, BOMBAY-400 026, MAHARASHTRA STATE, INDIA AND NAGINDAS JAMNADAS VORA ALSO INDIAN NATIONAL OF URAVASHI, NEPEAN SEA ROAD, BOMBAY-400 026, MAHARASHTRA STATE, INDIA.

Application No. 175/Bom/84 Filed—JUNE 14, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

## 2 Claims

An improved plate type oil cooler for an engine or a like machine comprising more than one oil cooling element the number of elements depending upon the oil cooling requirement of the engine or machine, each of said element consists of a top plate, a turbulator plate and a bottom plate, each of the three plates being provided with a pair of matching holes serving as inlet and outlet for the oil flow through the said oil cooler, the top and bottom plates being provided with flarings along the periphery of said holes and also with a number of matching projections projecting out from one surface of the said top and bottom plates; the said turbulator plate being provided with honey comb like corrugated pattern on its surface, the said bottom plate being further provided with two washers kept in two grooves made around the flarings of said holes, the top and bottom plates being crimped together after keeping in between the turbulator plate with matching holes, two or more such elements being assembled together by aligning the said holes and brazing or soldering along the said matching projections in the bottom plate of upper element and top plate of lower/adjacent element; the top most plate of the oil cooler being rigidly provided with two flanges around the said flarings, preferably by brazing or soldering and the bottom most plate of the oil cooler is replaced by a plate without holes; the said flanges being provided with tapped holes for mounting the oil cooler in the housing of an engine or machine, the heated oil of the engine or machine being passed through the inlet of the oil cooler, the said housing being provided with cooling water circulating line in a known manner.

Comp. Specn. 9 Pages.

Drg. 8 sheets.

CLASS :

158763

Ind. Cl. : 32F, + 55D<sub>2</sub>.

Int. Cl. : AO1n — 9/00, C07c-103/30.

Title : A PROCESS FOR THE MANUFACTURE OF N-METHYL-2-(1'-HYDROXY-2'-2'-TRICHLOROETHYL) ACETOACETAMIDE.

Applicant : NATIONAL ORGANIC CHEMICAL INDUSTRIES LIMITED, AN INDIAN COMPANY, INCORPORATED UNDER THE COMPANIES ACT, 1956, AND HAVING ITS REGISTERED OFFICE AT MAFAT-LAL CENTRE, NARIMAN POINT, BOMBAY-400 021, INDIA.

Inventors : (1) KRISHNA DOULATRAO AMRE & (2) SUNDARARAMAN GOPALA KRISHNAN.

Application No. 229/BOM/1984 FILED ON 17TH AUG. 1984. APPROPRIATE OFFICE FOR OPPOSITION PROCEEDINGS (RULE 4, PATENTS RULES 1972), PATENT OFFICE, BOMBAY BRANCH.

## 2 Claims

A process for the manufacture of N-Methyl-2-(1'-Hydroxy-2'-2'-Trichloroethyl) Acetoacetamide called "Adduct" in high yields by reaction of N-Methyl Acetoacetamide and Trichloro Acetaldehyde in the presence of a base catalyst with toluene as solvent at 25°C to 45°C for 2 hours.

Comp. Specn. 5 pages.

Drg. 1 sheet.

Incl. Cl. : 32 C, 55 E4.

158764

Int. Cl. : C 12 d-9/16.

Title : A PROCESS FOR THE PRODUCTION OF NOVEL ANTHRACYCLINE COMPOUNDS AND THEIR ACID ADDITION SALTS FROM *STREPTOMYCES PURPURASCENS* CULTURE NUMBER HPL Y-11472.

Applicants : HOECHST INDIA LIMITED, OF HOECHST HOUSE, NARIMAN POINT, 193 BACKBAY RECLAMATION, BOMBAY-400 021, MAHARASHTRA, INDIA.

Inventors : DR. CHRISTOPHER MILTON MATHEW FRANCO, DR. TRIPTI KUMAR MUKHOPADHYAY, MR. KALYANAPURAM RAJAGOPALAN DESIKAN AND BIMAL NARESH GANGULI.

Application No. 238/BOM/1984, Filed on 27th August 1984.

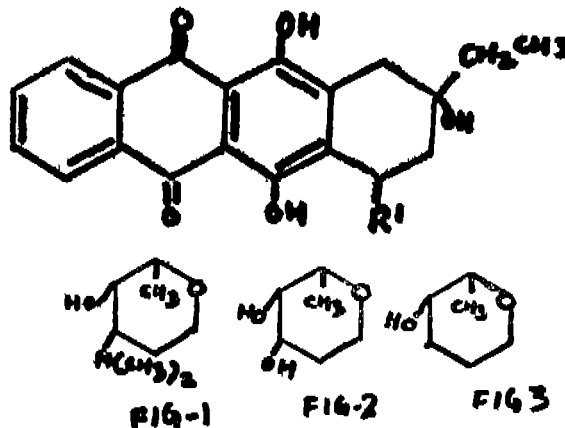
Complete Specification left on 10th October 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, Bombay-13.

## Claim

A process for the production of novel anthracycline compounds, particularly those of the formula I shown in the drawings accompanying the provisional specification, wherein R<sub>1</sub> stands for H or OR<sub>2</sub>, in which R<sub>2</sub> represents H or sugar combinations of the following type :

(A) Roa-d F-Rod and (B) Roa-Rod, wherein Roa is Rhodosamine of the formula shown in Fig. 1 of the drawings accompanying the provisional specification, dF is Deoxyfucose of the formula shown in Fig. 2 of the drawings accompanying the provisional specification and Rod is Rhodnose of the formula shown in Fig. 3 of the drawings accompanying the provisional specification, and their acid addition salts from *Streptomyces purpurascens* culture number HPL Y-11472, said process comprising cultivating said culture by fermentation in aerobic conditions in a nutrient medium herein described and in the presence of chemical inhibitor compounds (s) such as herein described and at a temperature between 24°C to 40°C and pH between 6.5 to 8.5 and isolating and purifying the said compounds from the culture broth in known manner such as herein described and if desired converting said compounds into their acid addition salts in known manner such as herein described.



FORMULA I

Provisional Specification 24 pages, Drawings—1 sheet.

Complete Specification 30 Pages, Drawings—Nil.

Ind. Cl. : 128 I.

158765

Int. Cl. : A 61 m — 15/08.

Title : INSTRUMENT FOR CURING COLD WITHOUT MEDICINE.

Applicant & Inventor : MRS. MEGHANABEN GULAB-RAI SHUKLA, AN INDIAN NATIONAL, OF NANA UCHANIA JAFARABAD-364540 (GUJARAT STATE), INDIA.

Application No. 7/Bom/1984, Filed on Jan. 6, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, Bombay-13.

## 4 Claims

An instrument for curing cold without medicine, comprising, an inner vessel closed from all sides and having at its top surface a water inlet tube and an outlet tube for vapour; a middle vessel enclosing the inner vessel and connected together by water inlet tube keeping a gap at all sides for air flow and having holes in the base for air supply and connection for heating means; an outlet tube at the top surface for hot air enclosing the said vapour out let tube a hole for passing there through the said water inlet tube; a cover of non heat conducting material covering the middle vessel; the said non heat conducting cover is enclosed by an outer vessel made up of plastic or bakelite; arrangement being such that the hot air and the vapour produced by heating the double distilled water filled in the inner vessel passes to an inhaler by the said outlet tubes and getting mixed therein which is to be inhaled by the patient, the said inhaler being provided with adjustable chin rest which can be fixed to the chin of the patient and tied over the head by flexible strap to keep a desired distance between outlet of inhaler and nose of patient.

Complete specification 5 pages, Drawing 1 sheet.

Ind. Cl. : 98G

158766

Int. Cl. : B 21C-37/22, B 21d-53/02, F 28d-21/00

Title : AN IMPROVED SHELL AND TUBE HEAT EXCHANGER.

Applicant : LARSEN & TOUBRO LIMITED, OF L & T HOUSE, BALLARD ESTATE, BOMBAY-400 036, MAHARASHTRA, INDIA.

Inventors : GAJANAN KRISHNAJI SADEKAR, BEL-LUR VISWESHWARIAH NAGENDRA KUMAR & MATHUR RAMASWAMY SHANKER.

Application No. 317/BOM/1984 Filed on Nov. 12, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, Bombay-13.

## 5 Claims

An improved shell and tube heat exchanger comprising a shell and tube bundle running parallel to the longitudinal axis of said shell, said shell being provided with a fluid inlet and a fluid outlet, said shell and tube bundle being rigidly supported in a tube sheet at one or at both ends and provided with a fluid head or channel at one end or at both ends, said fluid head or channel being rigidly supported on the corresponding tube sheet and said tube bundle being supported at predetermined intermediate positions by atleast two adjoining baffles provided with interconnecting cum displacing means whereby said baffles are interconnected and displaced with respect to each other in a direction perpendicular to the axis of said tube bundle to interlock and thus rigidly support said tube bundle at said predetermined intermediate positions.

Comp. Specn. 16 pages, Drgs. 5 sheets.

Ind. Cl. : 32A<sub>1</sub>

158767

Int. Cl. : C09 b62/82, C09 b31/20.

Title : A NOVEL PROCESS FOR THE PREPARATION OF NOVEL GREEN REACTIVE DYES.

Applicants : JAYSYNTH DYECHEM PVT. LTD., AN INDIAN COMPANY OF E-16, "EVEREST" TARDEO ROAD, BOMBAY-400 034, MAHARASHTRA, INDIA.

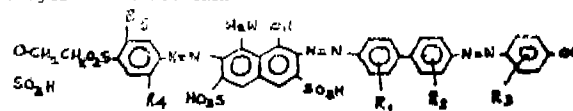
Inventor : DR. SHRIKANT HARI GOLE.

Application No. 343/BOM/1984, Filed on 12th December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, Bombay-13.

## 2 Claims

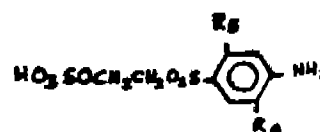
A novel process for the preparation of novel green, reactive dyes of the formula I



FORMULA I

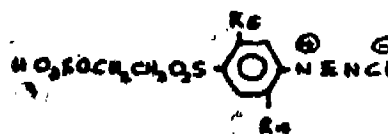
wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> each stands for hydrogen, methyl or methoxy, R<sub>4</sub> stands for hydrogen or methoxy, and R<sub>5</sub> stands for hydrogen, methyl or methoxy said process comprising :

(i) diazotising an aniline of the formula II



FORMULA II

wherein R<sub>4</sub> and R<sub>5</sub> are as defined above, with hydrochloric acid and sodium nitrite in the presence of water and at a temperature between 0°C to 5°C to obtain a benzene diazonium chloride of the formula III

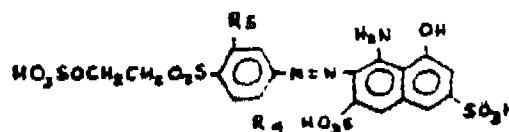


FORMULA III

wherein R<sub>4</sub> and R<sub>5</sub> are as defined above;

(ii) coupling the benzene diazonium chloride of the formula III

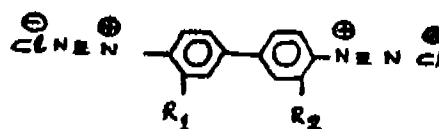
with 1-Naphthol-8-amino-3, 6-di-sulfonic acid in the presence of water and at a temperature between 0°C to 5°C to obtain a disulfonic acid of the formula IV



FORMULA IV

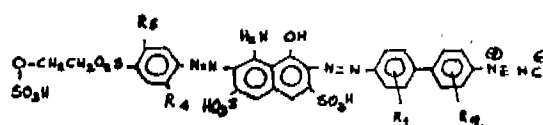
wherein R<sub>4</sub> and R<sub>5</sub> are as defined above.

(iii) coupling the disulfonic acid of the formula IV with a tetrazonium chloride of the formula V



FORMULA V

wherein R<sub>1</sub> and R<sub>2</sub> are as defined above in the presence of water and at a temperature between 0°C to 5°C to obtain a disulfonic acid of the formula VI



FORMULA VI

wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub> and R<sub>5</sub> are as defined above;

(iv) coupling the disulfonic acid of the formula VI with a phenol of the formula VII



FORMULA VII

wherein R<sub>3</sub> is as defined above at a temperature between 0°C to 5°C and in the presence of an aqueous solution of sodium hydroxide to obtain the green reactive dye of the formula I. and

(v) recovering the green reactive dye of the formula I from the reaction mixture,

Complete Specification 13 Pages, Drawings—2 sheets.

#### CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

(1)

The claim made by Mitsubishi Heavy Industries Limited under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 156501 in their name has been allowed.

(2)

The claim made by National Dairy Development Board under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 157049 in their name has been allowed.

(3)

The claim made by National Dairy Development Board under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 157050 in their name has been allowed.

#### CORRECTION OF CLERICAL ERRORS

Under Section 78(i) of the Patents Act, 1970 certain Clerical errors occurring in the application, specification and drawings in respect of Patent No. 157307 was corrected on 9th December, 1986.

#### PATENTS SEALED

151574 155050 155051 155955 156313 156382 156404 156359  
156731 156734 156735 156736 156740 156759 156760 156761  
156762 156802 156826 156842 156843 156844 156845 156847  
156854 156858 156859 156862 156876 156880 156881 156882  
156883 156887 156937 156948 156954 156955 156970 156974  
156982 156983 156986 157002.

#### REGISTRATION OF ASSIGNMENTS, LICENCES ETC. (PATENTS)

Assignments, Licences or other transactions effecting the interests of the original Patentees have been registered in the following cases. The number of each case is followed by the name of the parties claiming interests.

135943. Asca Actiebolag.

153020. } Ashoke Iron & Steel Fabricators.  
153021. }

151065. Kuraray Yuka Company Limited.

148960. Instituto Chemioterapico Di Iodi Spa

150432. Bera Anstalt.

151865. Fried Krupp Gesellschaft Mit Beschränkter Haftung.

#### COMMERCIAL WORKING OF THE PATENTED INVENTION

##### MECH. & GEN. ENGG LIST-I

The following Patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the Statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of calendar year 1984, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of licence for the purpose.

Patent No.	Date of Patents	Name & Address of the Patentees	Title of the Invention
1	2	3	4
121776	13-6-1969	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India.	An unevenness indicator for indicating pavement irregularities.
121777	13-6-1969	Do.	A marking or/and indicating device suitable for attachment to an unevenness measuring machine.
128934	21-10-1970	ASAHI GLASS CO., LTD. No. 1-2, Merunouchi, 2-chome, Chiyoda-ku Tokyo, Japan.	Method and apparatus for forming continuous sheet glass.
129109	22-4-1978	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, INDIA.	Apparatus for recording wind velocity.
129884	8-1-1971	ETABLISSEMENT SALGAD, Vaduz, Liechtenstein.	Apparatus for storage and transport of projectiles particularly fin-stabilised projectiles.

1	2	3	4
130843	5-4-1971	COMBUSTION ENGINEERING INC. 1000, Prospect Hill Road, Windsor, State of Connecticut, U.S.A.	Method for forming corners of omegatype expansion joints.
130859	6-4-1971	GIRLING LIMITED Kings Road, Tyseley, Birmingham 11, England	Improvements in and relating to servo boc- ters for vehicle brake system.
131058	21-4-1971	USS ENGINEERS AND CONSULTANTS, INC. 600 Grant Street, Pittsburg, State of Pennsylvania U.S.A.	Improved slidable gats construction for use as a closure on a bottom pour vessel.
131120	26-4-1971	JOHN HAROLD BARWELL OF 13 Cranmer Road, Cambridge, Cambridge- shire, England.	A method of and apparatus for applying tread material to a tyre or wheels and tyre or wheel so obtained.
131222	4-5-1971	WILLIAM PRYM-WHERKE KG 519 Stolberg/Rhld, Zweifaller, Str. 5-7 F.R.G.	Process and equipment for manufacturing a Slide fastener by wearing.
131406	16-2-1972	COMPAGNIE PECHINEY, 23, Rue Balzac Paris 80, France.	A process & apparatus for the formation of threaded bores having a dressed surfaces.
131565	2-6-1971	GIRLING LIMITED Kings Road, Tyseley, Birmingham 11, England.	Improvements relating to disc brakes.
131995	5-7-1971	FIERRO ESPONJA S.A. Avenida Los Angeles at Oriente Monterney N.-4. Republic Mexico.	Method of and apparatus for reducing particulate metal ores.
132045	9-7-1971	UNIVERSAL OIL PRODUCTS COMPANY Ten UOP Plaza-Algonquin, Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Flow distributing apparatus and use thereof.
132591	20-8-1971	SOCIETE TECHNIQUE POUR L' UTILISATION DELA PRECONTRAINTTE (S.T.U.F. PROCEDES FREYSS INET) 66 Rue De La Reine, Boulogne Ha Uts De seine, France.	Expansion joint between two portions of ground converging and process for production the same.
133027	23-9-1971	SCOVILL MANUFACTURING COMPANY Waterbury Country of New Hovenk, State of Connecticut. U.S.A.	Improvements in or relating to valves for tubeless Tyres.
133168	7-10-1971	DR. C. OTTO-COMP. GMBH, Christstrasse 9, Post Fach 1349/1850, 463, Bochum West Germany.	Control means for the introduction of gaseous combustion agents in relation to regeneratively heated coke oven batteries.
133270	19-10-1971	GIRLING LIMITED Kings Road, Tyseley, Birmingham 11, England	Improvements in disc brakes for vehicles.
133527	8-11-1971	TERRANCE J. WATERS 33560 Mulholland, High way, Malilre California 90265, U.S.A. Malilre.	Hydroboloid buildings.
133862	7-12-1971	UNIVERSAL OIL PRODUCTS COMPANY Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Improved vapour liquid contacting device.
133955	15-12-1971	WILTSHIRE CUTLERY CO. PVT., LTD. 36-38 Albert Road, South Melbourne in the State of Victoria, Commonwealth of Australia	Knife scabber or holder.
13418	19-1-1972	SEALED POWER CORPORATION, 2001, Sunford Street, Muskegon, State of Michigan, 49443, U.S.A.	Improvements in and relating to piston ring assemblies.
134475	2-2-1972	NORTON COMPANY 1 New Bond Street Worcester, State of Massachusetts, U.S.A.	Production of fused abrasives.
134518	7-2-1972	BURMAH OIL TRADING LIMITED, Burmah House 57, Chiswell Street, London W.C. 1, England.	Improvements in or relating to hydraulic fluids.
134628	16-2-1972	Westinghouse Brake and Signal Co. Ltd., 82 Yorkway Kings, Cross London N1 9AJ, ENGLAND.	valve means.

1	2	3	4
135022	22-3-1972	WILLIAM PYRMWERKE KG. 519 Stolborg/Rhid Szweefaller Str. 5-7, Federal Republic of Germany.	Method of and apparatus for manufacturing a sliding clasp fastener.
135177	5-4-1972	USS Engineers & Consultants INC. 600 Grant Street, Pittsburg, State of Pennsylvania, U.S.A.	Method of and apparatus for treating liquid steel.
135186	6-4-1972	Do.	Method of an apparatus for replacing a holder for a pouring tube on a bottom pourvessel.
135321	18-4-1972	F.L. Smidth & Co. A/s, 77 Vigerslev Alle DK-2500 Copenhagen, Valby Denmark.	Method of assembling planetary cooler tubes on rotary kilns.
135369	25-5-1972	Girling Ltd., Kings Road, Tyseley, Birmingham 11, England.	Fluid level indicating devices.
135602	16-5-1972	Americal Standard INC. 40, West, the street, New York, 10018, USA.	Wuickservice valve device for fluid pressure brake system.
135620	21-11-1972	HAROLD GEORGE POOLE, Aspenden House, Bungting Ford, Hertfordshire, England.	Improvements in or relating to towing connections.
135621	3-7-1972	WILLIAM PRYM-WERKE KG. 519 Stooberg/Rhidawelf aller str. 5-7 Federal Republic of Germany.	An apparatus for manufacturing sliding clasp fasteners.
135631	9-10-1972	Robert Bosch G.m.b.H. Postfach 59, 7 Stuttgart 1, West Germany.	Improvements in and relating to a fuel injection pump for interval combustion engaine.
135712	9-6-1972	Palitex Project Co., Wecserweg 8, 4150 Krefeld, West Germany.	Scrapping roller.
135735	17-5-1972	F.L. SMIDTH AND CO., A/S, 77, Vigerslev Alle DK-2500 Copenhagen Valby Denmark.	Rotary kiln.
135836	1-7-1972	Palitex Project Co. G.m.b.H, Wesservweg 8, 415, Krefeld West Germany.	A spinning or twisting machine especially a double thread twisting machine.
136186	22-11-1972	GIRLING LIMITED, Kings Road Tyseley, Birmingham 11, ENGLAND.	Break shock adjusters.
136195	25-5-1972	SANDVIK AKTIEBOLAG Fack, S-81101, Sandviken 1.	Eccentric drill tool.
136205	13-10-1972	DR. C. OTTO & COMP. G.m.b.H. Bochum West Germany.	Vertical regenerator for horizontal coke ovens.
136241	28-6-1972	BATTELLE DEVELOPMENT CORPORATION, 505, King Avenue, Columbus, Ohio, 43201, USA.	Improving flexiural stength in fibre containing concrete.
136531	26-4-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHKI KAISHA 2-1, 2-Chome Furnace. Ote machi, Chiyoda-Ku Tokyo-to JAPAN	Furnace.
136623	27-5-1972	USS ENGINEERS AND CONSULTANTS, INC. 600 grant, Street, Pittsburah, State of Pennsylvania, U.S.A.	Sliding gate closure mechanism for controlling flow of molten metal.
136729	26-7-1972	SEALED POWER CORPORATION, 10001, Sanford street, muskegon, State of Michigan 49443, U.S.A.	An improbed method and aprtratus for making a latch in piston ring expander.
136959	8-5-1973	DR. C. OTTO & COMP GMBH. Christstrasse 9, 463, Bochum W. Germany.	Door for horizontal cooking ovens.

1	2	3	4
136971	2-11-1972	BATTELLE DEVELOPMENT CORPORATION 505, King street Columbus, Ohio-43201 U.S.A.	Concrete structural member.
137020	31-1-1973	KABUSHIKI KAISHA YAMADA JUKI 23, 4-Ban, Kumano-cho, Nishinomiya city, Hyogo, Prefecture, Japan.	Percussion apparatus.
137093	24-1-1973	ERIK SOLBECK OF 342, Vedack Strandvej 2950, Vedbaek, Denmark.	A machine for producing non-woven nettings.
137172	9-4-1973	REPCO RESEARCH PROPRIETORY LTD., Cranbourne Road, Dondenon, In the State of Victoria, Commonwealth of Australia.	Improved fluid seal.
137264	2-1-1973	GIRLING LIMITED Kings Road, Tyseley, Birmingham 11, ENGLAND.	Improvements relating to automatic adjuster for shoe drum brakes.
137287	3-1-1973	ELITEX ZAVODY TEXTILNIHO STROJIRENSTVI GENERALNI REDITELS, TVI, Liberec, Czechoslovakia.	Control circuit for feeding, printing ink into a cylindrical stencil via a pressure nozzle in machines for printing web materials particularly textiles.
137324	30-3-1973	PREROVSKE STROJIRNY NARODKI PONIK Prerov Czechoslovakia.	Arrangement for heat-treatings of lump and loose Material.
137426	9-11-1972	NATTELLE DEVELOPMENT CORPORATION 505 King Avenue, Colimbus, Ohil 43201, U.S.A.	A method of making reinforced concrete structure or body and structures so made.
137445	27-11-1972	GORDON SMISER LACKY 529, West Fourth Street, ES Condidio, California, U.S.A.	A ball point cartridge assembly.
137544	11-4-1973	SOCIETE NATIONAL E DES POUDRES ET EXPLOSIVES 12 Quai Henri IV, Cedex 04, 75181, Paris, France.	Improvements in or relating to tool holders.
137552	27-12-1972	UNION CARBIDE CORPORATION 270 Park Avenue, New York State of New York 10017, U.S.A.	A device capable of surface injection of gas in the form of small discrete buddles in the mass of molten metals in an enclosure.
137554	14-9-1973	PALTTEX-PROJECT-COMPANY GmbH of Weeserweg 8. 415 Krefeld, W. Germany.	Double twisting spindle with a twisting arm swivellable in a vertical direction.
137617	15-11-1972	DAINICHI NIPPON CABLES CO. Etc. No. 8 Nishinocho, Higashi, Mukaijima, Amgasaki-shi, Hyogo-ken, Japan.	Method of multilayered fabricated articles.
137702	16-2-1973	XAVIER LIPP, D-7091 Tannhausen Krels Aalen, German, Federal Republic.	Improvements in and Relating to apparatus for and a method of joining the edges of two sheet portions together.
137708	12-7-1973	NORTHEY ROTARY COMPRESSORS LIMITED Alder Road, Parkstone, Poole, Dorset, ENGLAND.	A rotary engines or pumps.
137753	16-10-1973	PALTEX PROJECT-COMPANY GmbH, Weeserweg 8, 415, Krefeld, West Germany.	Double twisting spindle.
137838	16-10-1973	PALTTEX PROJECT-COMPANY GmbH, of Weeserweg, 8, 415, Krefeld, W. Germany.	A device for stopping and locking carriage for a servicing device for a twisting machine spooling machine, or like.
137844	3-1-1973	SULZER BROTHERS LTD., Winter thus Switzerland.	Steam-generating apparatus.
137934	27-9-1973	BUREAU BBR LTD. Riesbachstrasse 57, Zurich, Switzerland.	Apparatus for anchoring wires or stranded wires.
137945	17-2-1973	ERNEST POLLARD Bank House, Harden Bingley, Yorkshire, England.	Improvements in or relating to drive belting and endless drive belts made therefrom.



1	2	3	4
137969	14-6-1973	PALTIEX PROJECT-COMPANY GmbH. Weeserweg 8, 415, Krefeld, W. Germany	A double twisting machine having a hand knotter.
137983	18-7-1973	SEMAN CORPORATION R.D.I. Millersburg, in the State of Ohio, United State of America.	Rigid frame tension fabric structure.
138078	17-7-1973	C.A. NORGREN LIMITED, Campden Road Snipston-on-stour Warwickshire, England.	Means for coupling fluid control components in fluid lines.
138116	30-11-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA No. 2-1, 2-chome, Ote-Machi, Chiyoda-ku, Tokyo-to, Japan.	Rotary kiln apparatus with suspension preheater having burner for calcining.
138192	20-2-1973	ETABLISSEMENT SALGAD, Vaduz, Liechtenstein.	Explosive Projectiles.
138195	11-1-1974	WESTINGHOUSE AIR BRAKE COMPANY OF PITUSBURG State of Pennsylvania U.S.A.	Blending valve device—for combining fluid pressure and dynamic brakes.
138221	11-1-1974	WESTINGHOUSE BRAKE AND SIGNAL COMPANY LTD., 3 John Street, London WE IN, England.	Brake cylinder release valve apparatus.
138249	10-7-1973	FERRANTI LIMITED Hollinwood, Lancashire, England.	An inertial guidance system for air craft.
138285	22-9-1973	VYKUMNY UTSAV BAVLVARSKY Usti Nad Orlici, Czechoslovakia.	Method of and apparatus for stopping are openend-end spinning machine.
138289	13-6-1973	TOKYO JUKI KOGYO KABUSHIKI KAISHA 8-2-1, Kokuryao Machi, Chofu-shi Tokyo, Japan.	Improvements in or relating to a typing machine for selectively typing on a sheet, a large member of characters.
138344	29-11-1973	NIPPON HOSSO KYOKAI No. 2-1, 2-Chome, Jinnan, Shibuya-ku, Tokyo, Japan.	A carrier converting equipment.
138321	16-4-1974	GIRLING LIMITED OF KINGS ROAD, TYSELEY, BIRMINGHAM 11, ENGLAND.	Fluid-Pressure brake system.
138336	6-4-1973	PERSONAL PRODUCTS COMPANY, Miltown, New Jersey U.S.A.	Absorbent dressing.
138360	17-4-1974	F.L. SMIDTH & CO. A/S 77 Vigerslev, Alle Copenhagen-valby, Denmark	Improvements in plants for burning granular or pulverous material.
138377	3-3-1973	Societe Nationale Des Poudres Et Explosifs, 12 Quai Henri IV 75181 Paris cedex 94, France.	Solid fuel rocker engine.
138492	26-6-1973	HOECHST AKTISNGESELLSHAFT 6230 Frankfurt/Main, 80 F.R.G.	PROCESS FOR FIXING PRINTS WITH REACTIVE DYESTUFFS on textile materials of native or regenerated cellulose & mixture thereof with synthetic fibres.
138497	15-5-1973	ETHICON INC Sommer ville, New Jersey U.S.A.	A swaged needle-suture combination. Device for aiding the stacking of documents.
138565	1-5-1974	COMBUSTION ENGINEERING INC. 1000 Prospect Hill Road, Windsor, Connecticut, USA.	Metal working apparatus.
138585	22-3-1973	GIRLING LIMITED Kings Road, Tyseley, Birmingham 11, England.	Improvements in brake adjusters.
138595	9-5-1972	FRANZ PLASSER BAHNBAUMASCINEN INDUSTRIEGESELLSCHAFT M.b.H. of Johannesgasse 3, Vienna 1, Austria.	Improvements relating to mobile machine for distributing and profiling the bedding ballast of a railway track.
138639	22-5-1973	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS 12 Quai Henri IV, Cedex 04, 75181, Paris France.	Apparatus for machining the inside of large cylindrical bodies.

1	2	3	4
138653	15-12-1973	THE WARNER & SWASEY CO., University Circle Research Centre, 11000 Carder Avenue Cleveland, Ohio 44106 USA.	A machine tool operating on a work piece.
138681	19-11-1973	CATERPILLAR TRACTOR COMPANY 100 N.E. Adams street, Peoria, Illinois 61602 USA.	Flat track shoe with tapered end ribs.
138746	12-2-1973	ONODO CEMENT COMPANY LTD. 6276, Oazo, Canada, Onoda-shi, Yamaguchi-ken, Japan.	Apparatus for heating and calcining of powder end/or pulverized materials.
138767	4-4-1973	FRIED KRUPP GESELLSCHAFT MIT BESCHRANKTER HAFTUNG. Allendorfer Strasse 103, D-43, Essen, F.R.G.	Floating body of metal and a process for the manufacture thereof.
138777	3-6-1973	KUMANDUR SRINIVASIYENGAR RANGASMAI Etc., Rourkela 8, Orissa State, INDIA.	Improvements in or relating to double layered braced domes.
138802	3-3-1973	JACQUES HENRY MERCIER 49 rue de Naples, Paris (8 <sup>ème</sup> ), France.	Improvements in or relating to Pressure vessel.
138820	14-1-1974	G.D. SOCIETA PER AZIONI OF VIA Pomponia 110, Bologna, ITALY.	Device for coordinating and feeding separately objects particularly sweets similar to a wrapping machine.
138842	12-6-1973	EMHART (U.K.) LTD., of Crompton Road, Whetley, Doncaster, Yorkshire, ENGLAND.	Valve block.
138918	14-5-1974	SCHUBERT & SALZER MASCHINEN FABRIK AG 8070. Ingolstadt, Friedrich-Ebert-strasse, W. Germany.	A spinning machine.
138926	12-3-1973	JACQUES HENRY MERCIER, 49, rue, de Naples, Paris (8 <sup>ème</sup> ) France.	Pressure vessel.
138953	13-6-1973	CANADIAN JESUIT MISSIONS 833 Broad view Avenue, Toronto, Ontario Canada M4K 2 p 9.	Internal combustion engine using hydrogen as a fuel.
139042	23-5-1973	ROY JOSEPH WEIKERT C/o. General films Inc. Covington, Ohio U.S.A.	Filling and sealing system.
139044	16-1-1974	VYZKUMNY USTAV BAVLNARSKY, Usti Nad Orlici, Czechoslovakia.	Apparatus for separating fibres for ringless spinning.
139094	17-7-1974	GIRLING LIMITED Kings Road, Tyseley, Birmingham 11, England.	Improvements in disc-brakes.
139150	11-7-1973	McNEIL-AKRON INC 96 East crossier Street, akron, sumit, country, ohio 44311, U.S.A.	Apparatus for holding an uncurved pneumatic tire.
139185	7-8-1974	GENERAL ELECTRIC COMPANY 1 River Road, Schenectady, New York, U.S.A.	Cooling system for cooling internal combus- tion engine.
139189	18-5-1973	ISHIKAWAJIMA-HARIMA JUKOGYA KABUSHIKI KAISHA No. 2-1, 2-Chome, Ote-Machi, Chiyoda, Tokyo-to, Japan.	Apparatus for burning materials of cement and the like.
139350	2-3-1974	MESSIER HISPANO S.A. 15 Avenue, Eylaa 75116 Paris, France.	Leading gear (under carriage) and fuse lage set with wheels drawn.
139356	17-9-1973	JOHNSON & JOHNSON 501 George Street, New Brunswick New Jersey	Extrusion process for pressure sensitive adhesive sheets and tapes.
139374	26-6-1974	GIRLING LTD., Kings Road, Tyseley, Birmingham 11 England.	A control valve assembly for a vehicle and dual circuit braking system.
139450	28-2-1973	C.A. NORGREN CO. 5400 South delaware Street, Littleton Colorado 80120 U.S.A.	Coupling unit for fluid control components and an assembly of a fluid control compo- nents.

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139454	7-1-1974	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1. INDIA.	Improvements in or relating to paint stripper.
139488	17-4-1973	GIRLING LTD., Kings Road, Tyseley, Birmingham 11 England.	Improvements in and relating to servoboosters for vehicle brake system.
139498	26-6-1974	SIMON GRAVES LTD., Cheadle health stockportshire England.	A device for facilitating the discharge of solid particulate material from hopper.
139515	18-5-1974	SOCIETE D' ETUDES DE MACHINES THERMIQUES 2, Quai de Seine 93202 Saing Denis France.	A device for cleaning an exhaust gas driven power turbine of a superheating set of a heat engine.
139539	10-8-1973	OLE DENDT RASMUSSEN 14, Anemonevej, Gentofte, Denmark and Beghin Say of 59239 Thumeries France.	Net and method of producing same.
139548	5-10-1974	PALTEX PROJECT CO., Wooserweg 8, 415, Krefeld, W. Germany.	Antiballooning device for twisting machines.
139602	4-6-1974	USS ENGINEERS & CONSULTANTS INC 600 Grant Street Pittsburgh State of Pennsylvania U.S.A.	Apparatus for introducing gas to hot metal in a bottom pour vessel.
139641	8-1-1974	G.D. SOCIETA PER AZIONI via Pomponia 10, Bologna, ITALY.	High speed intermittent cycle machine for wrapping pieces of soap and other similar products.
139676	22-4-1974	COMBUSTION ENGINEERING INC. 1000 prospect Hill Road, Windsor, Connecticut USA.	Means for adjusting the compression of a spring blasting means.
139681	11-4-1973	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS. 12, Quai Henri IV, Cedex 04, 75181 Paris France.	Milling machine for the machining of parts of a large dimensions in particularly of the blocks of solid propellents.
139682	11-4-1973	Do.	Process and device for machining of the internal duct of a block of solid propellant.
139799	19-7-1973	ESTABLISSEMENT SAIGAD VADUZ LIECHTENSTEIN.	Light mortar for fin stabilised projectiles.
139805	4-3-1974	OUTOKUMPU OY Outokumpu, Finland	An Intra-uterine contraceptive device.
139812	5-12-1974	GIRLING LTD. Kings Road Tyseley, Birmingham 11 England	Improvements in Transmission members and hydraulic actuators incorporating said transmissions members.
139860	4-4-1973	WESTINGHOUSE ELECTRIC CORPORATION Pittsburgh Pennsylvania U.S.A.	Improvement System for turbine speed controlling valve operation.
139945	24-8-1973	CRAWFORD BROWN MURTON Pittsburgh, Pennsylvania 15221 U.S.A.	A method of applying a refractory lining to a metallurgical vessel and metallurgical vessel so produced and composition used in the same.
139955	18-10-1973	BICC (BRITISH INSTITUTED CALENDERS CABLES LTD) 21 Bloomsbury street, London WC 3 QN ENGLAND.	Wire drawing machinery.

## RENEWAL FEES PAID

138547 141689 142354 143604 145293 145582 145642 146510  
 146541 146554 147588 148499 149161 149207 149260 149306  
 149448 149606 150744 150795 150901 151731 152070 152071  
 152272 152354 152636 152702 152871 152986 153032 153094  
 153323 153530 153537 153538 153695 153735 154130 154363  
 154653 154890 154978 154987 155558 155741 155820 155908  
 155947 156057 156061 156351 156451 156456 156477 156557  
 156671 156687 156765 156822 156869 157696.

## RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 146124 dated the 17th September, 1976 made by Kirloskar Oil Engines Limited on the 1st January, 1986 and notified in the Gazette of India, Part-III Section 2 dated the 2nd August, 1986 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 149241 dated the 5th April, 1980 made by Brakes India Limited on the 1st April, 1986 and notified in the Gazette of India, Part-III, Section 2 dated the 16th August, 1986 has been allowed and the said patent restored. patent restored.

#### REGISTRATION OF ASSIGNMENT LICENCE ETC. (DESIGN)

Assignment, Licences or other transaction effecting the interest of the original proprietors have been registered in the following case. The number of the case is followed by the name of applicant for registration :

*Number, Class No. & Name*

148193, 3—Atmaram Kachardas Patel & Dashrath Keshevlal Patel, trading as Anjali Products.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 157131. NPF TYPE FOUNDRY 73 Maddox Street, Madras-600 112, Tamilnadu, India, an Indian Partnership Firm. "Type Founts". 11th June, 1986.

Class. 1. No. 157289. Ion Exchange (INDIA) Limited, Tiecicon House, Dr. E. Moses Road, Bombay-400 011, Maharashtra, an Indian Company. "Water Purifier". 25th July, 1986.

Class. 1. No. 157320. Anjali Products, 170, Bombay Talkies Compound, Malad (West), Bombay-400 064, State of Maharashtra, India. "Dry and Wet Grinding Container". 6th August, 1986.

Class. 1. Nos. 157335, 157336. Associated Engineering Works, Chivatam Road, Tanuku-534 211, Andhra Pradesh, India, a Partnership firm duly registered under the Indian Partnership Act, 1932. "Gobar Gas Stoves". 13th August, 1986.

Class. 3. Nos. 157286, 157287, 157288. Ion Exchange (INDIA) Limited, Tiecicon House, Dr. E. Moses Road, Bombay-400 011, Maharashtra, an Indian Company. "Water Purifier". 25th July, 1986.

Class. 3. No. 157244. Video Marketing Services Properties Ltd., a company duly incorporated under the laws of Hong Kong, of 8th floor, Printing House 6 Duddell Street, Central Hong Kong, Hong Kong. "Video Dispenser". Reciprocity date is 9th January, 1986. (Australia).

Class. 3. No. 157326. Alpine International (a registered Partnership firm) of G-2 Konark Apartments, Dhole Patil Road, Pune-411 001, State of Maharashtra, India. "Bottle". 12th August, 1986.

Class. 3. No. 157347. The Goodyear Tire & Rubber Company, a corporation organised under the laws of the State of Ohio, with Offices at 1144 East Market Street, Akron, Ohio 44316-0001, United States of America. "Tyre for a Vehicle Wheel". 19th August, 1986.

Class. 3. No. 157311. Duralium Corporation (INDIA) a registered Partnership Firm of G-89 Sarvodaya-nagar, 1st Paniarapole Lane, Bombay-400 004, State of Maharashtra, India. "Tiffin Box". 4th August, 1986.

Class. 3. No. 157313. All India Medical Corporation, Mulji Jetha Building, 185, Princess Street, Bombay-400 002, Maharashtra, India, an Indian Partnership Firm. "Container". 4th August, 1986.

Class. 3. No. 157345. T. S. R. & CO. Madras, of Ramapuram, Mount-Poonamalle Road, Madras-600 089, India, a registered Proprietorship firm. "Bottle". 19th August, 1986.

Class. 3. No. 157327. Interlego A/S. a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark. "a Toy Activity Centre". 13th August, 1986.

Class. 3. No. 157328. Interlego A/S. a Danish Company, of Aastvej 1, DK-7190 Billund, Denmark. "a Base Plate for a Toy Activity Centre". 13th August, 1986.

Class. 4. No. 157346. T. S. R. & CO. Madras, of Ramapuram, Mount-Poonamalle Road, Madras-600 089, India; a registered Proprietorship firm. "a Bottle". 19th August, 1986.

Class. 5. No. 157233. GTC Industries Limited, (a Company incorporated under the Provisions of Indian Companies Act) at Tobacco House, Vile Parle, Bombay-400 056, State of Maharashtra, India. "Cigarette Packet". 8th July, 1986.

Class. 10. No. 157307. Shital Industries, Jagdish Pura Loha Mandi Agra, Uttar Pradesh. "Sole of Footwear". 1st August, 1986.

#### *Extn. of Copyright for the Second period of five years*

Nos. 156153, 156635, 156636, 156637—Class-1.

Nos. 152104, 156504—Class-3.

#### *Extn. of Copyright for the Third period of five years.*

Nos. 156153, 156635, 156636, 156637—Class-1.

Nos. 152104, 156504—Class-3.

R. A. ACHARYA  
Controller General of Patents, Designs  
and Trade Marks.